QUIZ 2

COMP9021 PRINCIPLES OF PROGRAMMING

Sample outputs

```
$ python quiz_2.py
Enter three nonnegative integers: 0 0 0
I failed to generate one strictly positive number, giving up.
$ python3 quiz_2.py
Enter three nonnegative integers: 0 1 1
The generated list is:
   [1]
The fractions no greater than 1 that can be built from L, from smallest to largest, are:
The fraction closest to 1/2 is 1
$ python3 quiz_2.py
Enter three nonnegative integers: 0 3 1
The generated list is:
   [1, 1, 0]
The fractions no greater than 1 that can be built from L, from smallest to largest, are:
0 and 1 are both closest to 1/2
$ python3 quiz_2.py
Enter three nonnegative integers: 0 3 12
The generated list is:
   [6, 12, 6]
The fractions no greater than 1 that can be built from L, from smallest to largest, are:
   1/2 1
One of these fractions is 1/2
$ python3 quiz_2.py
Enter three nonnegative integers: 0 3 20
The generated list is:
   [12, 13, 1]
The fractions no greater than 1 that can be built from L, from smallest to largest, are:
   1/13 1/12 12/13 1
The fraction closest to 1/2 is 1/12
```

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$ python3 quiz_2.py
Enter three nonnegative integers: 1 4 30
The generated list is:
   [4, 18, 27, 25]
The fractions no greater than 1 that can be built from L, from smallest to largest, are:
   4/27 4/25 2/9 2/3 18/25 25/27 1
The fraction closest to 1/2 is 2/3
$ python quiz_2.py
Enter three nonnegative integers: 12 3 5
The generated list is:
   [3, 2, 5]
The fractions no greater than 1 that can be built from L, from smallest to largest, are:
   2/5 3/5 2/3 1
2/5 and 3/5 are both closest to 1/2
$ python quiz_2.py
Enter three nonnegative integers: 0 3 100
The generated list is:
   [49, 97, 53]
The fractions no greater than 1 that can be built from L, from smallest to largest, are:
   49/97 53/97 49/53 1
The fraction closest to 1/2 is 49/97
$ python quiz_2.py
Enter three nonnegative integers: 0 5 30
The generated list is:
   [27, 12, 24, 28, 13]
The fractions no greater than 1 that can be built from L, from smallest to largest, are:
   3/7 4/9 13/28 13/27 1/2 13/24 6/7 8/9 12/13 27/28 1
One of these fractions is 1/2
$ python quiz_2.py
Enter three nonnegative integers: 0 4 40
The generated list is:
   [24, 26, 2, 16]
```

The fractions no greater than 1 that can be built from L, from smallest to largest, are:

1/13 1/12 1/8 8/13 2/3 12/13 The fraction closest to 1/2 is 8/13